

## Milk Production

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### May Milk Production up 4.9 Percent

**Milk production** in the 24 major States during May totaled 18.9 billion pounds, up 4.9 percent from May 2020. April revised production, at 18.5 billion pounds, was up 3.7 percent from April 2020. The April revision represented an increase of 44 million pounds or 0.2 percent from last month's preliminary production estimate.

**Production per cow** in the 24 major States averaged 2,107 pounds for May, 63 pounds above May 2020.

**The number of milk cows** on farms in the 24 major States was 8.99 million head, 152,000 head more than May 2020, and 5,000 head more than April 2021.

### May Milk Production in the United States up 4.6 Percent

Milk production in the United States during May totaled 19.9 billion pounds, up 4.6 percent from May 2020.

**Production per cow** in the United States averaged 2,088 pounds for May, 61 pounds above May 2020.

**The number of milk cows** on farms in the United States was 9.51 million head, 145,000 head more than May 2020, and 5,000 head more than April 2021.

### Monthly Milk Production - 24 Selected States





### Milk Cows and Production by Quarter - United States: 2020-2021

[May not add due to rounding. Blank data cells indicate estimation period has not yet begun]

<u>.</u> ,	Milk cows 1		Milk pe	r cow <sup>2</sup>	Milk production <sup>2</sup>		
Quarter	2020	2021	2020	2021	2020	2021	Change from 2020
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January-March April-June July-September October-December	9,364	9,460	5,990 5,988 5,908 5,892	6,002	56,174 56,070 55,419 55,557	56,775	1.1
Annual	9,388		23,777		223,220		

<sup>&</sup>lt;sup>1</sup> Includes dry cows. Excludes heifers not yet fresh. <sup>2</sup> Excludes milk sucked by calves.

### Milk Cows and Production by Month - 24 Selected States: 2020-2021

[May not add due to rounding. Blank data cells indicate estimation period has not yet begun]

	Milk cows 1		Milk pe	r cow <sup>2</sup>	Milk production <sup>2</sup>			
Month	2020	2020 2021 2		2021	2020	2021	Change from 2020	
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)	
January	8,837 8,848 8,861 8,855 8,838 8,834 8,854 8,857 8,877 8,897	8,934 8,947 8,961 8,985 8,990	2,034 1,926 2,085 2,009 2,044 1,984 2,024 2,010 1,941 1,996	2,065 1,884 2,106 2,054 2,107	17,974 17,038 18,474 17,787 18,061 17,530 17,919 17,799 17,226 17,758	18,446 16,858 18,873 18,454 18,941	2.6 -1.1 2.2 3.7 4.9	
November December	8,914 8,923 8,866		1,938 2,019 24,008		17,274 18,012 212,852			

<sup>&</sup>lt;sup>1</sup> Includes dry cows. Excludes heifers not yet fresh. <sup>2</sup> Excludes milk sucked by calves.

### Estimated Milk Cows and Production by Month - United States: 2020-2021

[May not add due to rounding. Blank data cells indicate estimation period has not vet begun]

	Milk cows 1		Milk pe	r cow <sup>2</sup>	Milk production <sup>2</sup>			
Month	2020	2021	2020	2021	2020	2021	Change from 2020	
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)	
January	9,365 9,377 9,391 9,377 9,360 9,355 9,372 9,374 9,395 9,414 9,432 9,442	9,447 9,460 9,474 9,500 9,505	2,016 1,908 2,066 1,993 2,027 1,968 2,001 1,988 1,919 1,976 1,919 1,997	2,046 1,868 2,088 2,036 2,088	18,877 17,895 19,402 18,684 18,972 18,414 18,756 18,632 18,031 18,603 18,103 18,851	19,328 17,667 19,780 19,340 19,850	2.4 -1.3 1.9 3.5 4.6	

<sup>&</sup>lt;sup>1</sup> Includes dry cows. Excludes heifers not yet fresh. <sup>2</sup> Excludes milk sucked by calves.

Milk Cows and Production - 24 Selected States: May 2020 and 2021

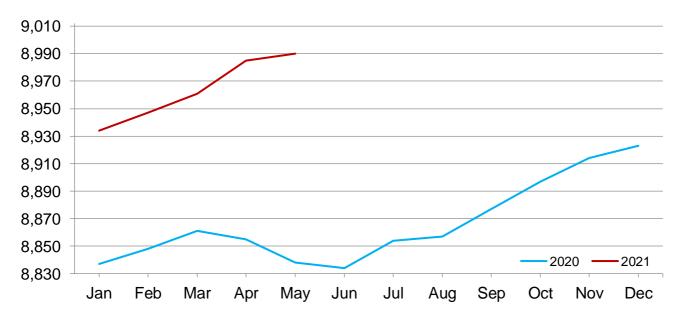
[May not add due to rounding]

	Milk c	ows 1	Milk pe	r cow <sup>2</sup>		Milk production <sup>2</sup>	
State	2020	2021	2020	2021	2020	2021	Change from 2020
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Arizona	200	198	2,145	2,155	429	427	-0.5
California	1,721	1,720	2,070	2,175	3,562	3,741	5.0
Colorado	196	206	2,220	2,225	435	458	5.3
Florida	113	110	1,770	1,825	200	201	0.5
Georgia	82	82	1,855	1,890	152	155	2.0
Idaho	643	653	2,165	2,190	1,392	1,430	2.7
Illinois	82	83	1,875	1,890	154	157	1.9
Indiana	176	196	2,030	2,050	357	402	12.6
lowa	217	228	2,095	2,120	455	483	6.2
Kansas	168	175	1,970	2,030	331	355	7.3
Michigan	428	445	2,310	2,335	989	1,039	5.1
Minnesota	443	462	1,930	1,960	855	906	6.0
New Mexico	328	330	2,030	2,140	666	706	6.0
New York	626	628	2,075	2,155	1,299	1,353	4.2
Ohio	253	260	1,880	1,890	476	491	3.2
Oregon	125	126	1,825	1,825	228	230	0.9
Pennsylvania	483	475	1,815	1,880	877	893	1.8
South Dakota	134	153	1,940	1,945	260	298	14.6
Texas	590	622	2,075	2,180	1,224	1,356	10.8
Utah	96	95	2,000	2,020	192	192	-
Vermont	123	119	1,780	1,870	219	223	1.8
Virginia	75	73	1,770	1,785	133	130	-2.3
Washington	279	277	2,105	2,100	587	582	-0.9
Wisconsin	1,257	1,274	2,060	2,145	2,589	2,733	5.6
24-State Total	8,838	8,990	2,044	2,107	18,061	18,941	4.9

<sup>-</sup> Represents zero.

# **Monthly Milk Cows - 24 Selected States**

Thousand head



<sup>&</sup>lt;sup>1</sup> Includes dry cows. Excludes heifers not yet fresh.

<sup>&</sup>lt;sup>2</sup> Excludes milk sucked by calves.

### Milk Cows and Production - 24 Selected States: April 2020 and 2021

[May not add due to rounding]

	Milk c	ows 1	Milk per	cow <sup>2</sup>		Milk production <sup>2</sup>	
	2020	2021	2020	2021	2020	2021	Change from 2020
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Arizona	200	198	2,155	2,165	431	429	-0.5
California	1,721	1,720	2,035	2,120	3,502	3,646	4.1
Colorado	194	205	2,160	2,165	419	444	6.0
Florida	115	110	1,805	1,805	208	199	-4.3
Georgia	82	82	1,880	1,915	154	157	1.9
Idaho	647	653	2,090	2,105	1,352	1,375	1.7
Illinois	82	83	1,870	1,880	153	156	2.0
Indiana	176	195	1,990	2,000	350	390	11.4
lowa	219	228	2,040	2,040	447	465	4.0
Kansas	169	175	1,960	2,005	331	351	6.0
Michigan	428	444	2,255	2,280	965	1,012	4.9
Minnesota	445	462	1,850	1,895	823	875	6.3
New Mexico	330	333	2,100	2,140	693	713	2.9
New York	626	626	2,045	2,095	1,280	1,311	2.4
Ohio	253	260	1,840	1,840	466	478	2.6
Oregon	125	126	1,760	1,755	220	221	0.5
Pennsylvania	485	475	1,820	1,840	883	874	-1.0
South Dakota	132	152	1,870	1,885	247	287	16.2
Texas	590	620	2,090	2,155	1,233	1,336	8.4
Utah	97	95	1,930	1,945	187	185	-1.1
Vermont	124	119	1,800	1,825	223	217	-2.7
Virginia	75	73	1,765	1,770	132	129	-2.3
Washington	280	277	2,030	2,020	568	560	-1.4
Wisconsin	1,260	1,274	2,000	2,075	2,520	2,644	4.9
24-State Total	8,855	8,985	2,009	2,054	17,787	18,454	3.7

<sup>&</sup>lt;sup>1</sup> Includes dry cows. Excludes heifers not yet fresh.

# Monthly Milk Per Cow - 24 Selected States

**Pounds** 



<sup>&</sup>lt;sup>2</sup> Excludes milk sucked by calves.

### **Statistical Methodology**

Survey Procedures: Primary data used to determine these estimates were obtained from a sample of producers. Individual States maintain a list of all known milk producers and information on the size of their herd. States use all known sources of producers to ensure that their lists are as complete as possible. Generally, all large producers and a sample of small producers are included in the survey. Questionnaires are mailed to producers near the end of the month to obtain data for the first day of the month. Additional reports are obtained by telephone, as needed, to supplement the mail response. Where feasible, States utilize state and federal administrative data to estimate milk production. This eliminates duplication of data gathering by different government agencies such as Agricultural Marketing Service (AMS) Dairy Market News. Indications of milk cow inventory are also obtained in the January Cattle Survey.

**Estimation Procedures**: Regional Field Offices prepare these estimates by using a combination of survey indications, historic trends, and any available administrative data. Individual State estimates are reviewed by the Agricultural Statistics Board for reasonableness.

Revision Policy: Milk production, milk per cow, and number of milk cows are subject to revision the following month after initial publication for monthly States or the following quarter for the quarterly States. Normally, administrative data from Federal Market Orders, State Departments of Agriculture, or other sources are the main basis for revisions. However, administrative data for all States may not be available in time for these revisions. Estimates are again subject to revisions in February each year based on additional administrative data. In the event that additional changes are necessary, a third revision is possible in February the following year. Estimates are again reviewed after data from the five-year Census of Agriculture are available. No revisions are made after that date.

**Reliability**: Since all operations with dairy animals are not included in the sample, survey estimates are subject to sampling variability. Survey results are also subject to non-sampling errors such as omissions, duplications, and mistakes in reporting, recording, and processing the data. The effects of these errors cannot be measured directly. They are minimized through rigid quality controls in the data collection process and through a careful review of all reported data for consistency and reasonableness.

To assist users in evaluating the reliability of the estimates in this report, the "Root Mean Square Error" is shown for selected items in the table below. The "Root Mean Square Error" is a statistical measure based on past performance and is computed using the differences between first and final estimates. The "Root Mean Square Error" for the 24 State milk production estimates over the past 24 months is 0.4 percent. This means that chances are 2 out of 3 that the final estimate will not be above or below the current estimate of 18.9 billion pounds by more than 0.4 percent. Chances are 9 out of 10 that the difference will not exceed 0.7 percent.

### **Reliability of Monthly Milk Production Estimates**

[Based on data for the past 24 months]

ltem	Root mean	90 percent confidence level	Difference between first and latest estimate					
			Averege	Smallest	Largest	Months		
	square error		Average			Below latest	Above latest	
	(percent)	(percent)	(1,000)	(1,000)	(1,000)	(number)	(number)	
Milk production	0.4	0.7	54	0	150	19	4	
All Milk cows	0.1	0.2	11	0	26	21	2	

#### **Information Contacts**

Listed below are the commodity specialists in the Livestock Branch of the National Agricultural Statistics Service to contact for additional information. E-mail inquiries may be sent to nass@usda.gov.

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- Cornell's Mann Library has launched a new website housing NASS's and other agency's archived reports. The new website, <a href="https://usda.library.cornell.edu">https://usda.library.cornell.edu</a>. All email subscriptions containing reports will be sent from the new website, <a href="https://usda.library.cornell.edu">https://usda.library.cornell.edu</a>. To continue receiving the reports via e-mail, you will have to go to the new website, create a new account and re-subscribe to the reports. If you need instructions to set up an account or subscribe, they are located at: <a href="https://usda.library.cornell.edu/help">https://usda.library.cornell.edu/help</a>. You should whitelist <a href="motifications@usda-esmis.library.cornell.edu">notifications@usda-esmis.library.cornell.edu</a> in your email client to avoid the emails going into spam/junk folders.

For more information on NASS surveys and reports, call the NASS Agricultural Statistics Hotline at (800) 727-9540, 7:30 a.m. to 4:00 p.m. ET, or e-mail: <a href="mass@usda.gov">nass@usda.gov</a>.

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